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## CHRONOLOGICAL CYCLES, 1885.

Dominical letter . . . . .	D
Epact . . . . .	14
Lunar cycle or Golden number . . . . .	5
Solar cycle . . . . .	18
Roman indiction . . . . .	13
Julian period . . . . .	6598

FIXED AND MOVABLE FESTIVALS OF  
THE CHURCH, 1885.

Epiphany . . . . .	Jan. 6.
Septuagesima Sunday . . . . .	Feb. 1.
Quinquagesima (Shrove Sunday) . . . . .	Feb. 15.
Ash Wednesday . . . . .	Feb. 18.
First Sunday in Lent . . . . .	Feb. 22.
St. Patrick . . . . .	March 17.
Palm Sunday . . . . .	March 29.
Good Friday . . . . .	April 3.
Easter Sunday . . . . .	April 5.
Low Sunday . . . . .	April 12.
Rogation Sunday . . . . .	May 10.
Ascension Day (Holy Thursday) . . . . .	May 14.
Pentecost (Whit Sunday) . . . . .	May 24.
Trinity Sunday . . . . .	May 31.
Corpus Christi . . . . .	June 4.
St. John Baptist (Midsummer Day) . . . . .	June 24.
Michaelmas Day . . . . .	Sept. 29.
First Sunday in Advent . . . . .	Nov. 29.
Christmas Day . . . . .	Dec. 25.

## MORNING AND EVENING STARS, 1885.

MERCURY will be visible as morning-star about Jan. 26, May 25, and Sept. 15; and as evening-star about April 8, Aug. 6, and Nov. 30.

VENUS will be morning-star till May 4, then evening-star the rest of the year.

MARS will be evening-star till Feb. 11, then morning-star the rest of the year.

JUPITER will be morning-star till Feb. 18, then evening-star till Sept. 8, and morning-star again the rest of the year.

SATURN will be evening-star till June 18, then morning-star till Dec. 26, and evening-star again the rest of the year.

## SEASONS, 1885.

(Eastern standard.)

Spring begins . . . . .	March 20, 5 <sup>h</sup> A.M.
Summer " . . . . .	June 21, 2 <sup>h</sup> A.M.
Autumn " . . . . .	Sept. 22, 4 <sup>h</sup> P.M.
Winter " . . . . .	Dec. 21, 10 <sup>h</sup> A.M.

## TIDE TABLE.

THE table of tides is limited to points on the Atlantic coast, as the tides on the Pacific coast are of so complicated a character that it would be impossible to refer to them by the simple table of reduction as given. The actual times of the occurrence of high and low water are much affected by the force of the wind, a difference of fifteen minutes between prediction and observation often being brought about.

			Correction to New-York (standard time) tide to obtain tide in standard time elsewhere.	Mean range.
	H.	M.		FEET.
Eastport, Me. . . . .	Add	3	33	18.2
Mount Desert Island, Me. . . . .	"	2	32	9.9
Belfast, Me. . . . .	"	2	38	9.7
Portland, Me. . . . .	"	2	55	9.1
Portsmouth, N.H. . . . .	"	3	3	8.6
Newburyport, Mass. . . . .	"	3	17	7.5
Ipswich, Mass. . . . .	"	3	6	9.0
Rockport, Mass. . . . .	"	2	36	8.6
Gloucester, Mass. . . . .	"	2	44	8.9
Marblehead, Mass. . . . .	"	2	51	9.3
Salem, Mass. . . . .	"	2	54	9.2
Plymouth, Mass. . . . .	"	2	59	10.2
Provincetown, Mass. . . . .	"	2	59	9.2
Hyannis, Mass. . . . .	"	4	0	3.3
Nantucket, Mass. . . . .	"	4	15	3.0
Vineyard Haven, Mass. . . . .	"	3	22	1.6
Wood's Holl (north side), Mass. . . . .	Sub.	0	21	4.0
Wood's Holl (south side), Mass. . . . .	Add	0	14	1.6
New Bedford entrance (Dumpling R.), Mass. . . . .	Sub.	0	20	3.7
Fall River, Mass. . . . .	"	0	8	4.7
Newport, R.I. . . . .	"	0	33	3.9
Point Judith, R.I. . . . .	"	0	45	3.1
Montauk Point, R.I. . . . .	Add	0	4	1.9
Watch Hill, R.I. . . . .	"	0	44	2.7
Stonington, Conn. . . . .	"	0	52	2.7
New London, Conn. . . . .	"	1	12	2.5
Norwich, Conn. . . . .	"	1	57	3.1
New Haven, Conn. . . . .	"	2	57	6.0
Bridgeport, Conn. . . . .	"	3	1	6.5
New Rochelle, N.Y. . . . .	"	3	14	7.6
West Point, N.Y. . . . .	"	2	55	2.7
Albany and Greenbush, N.Y. . . . .	Sub.	2	48	2.3
Brooklyn (navy-yard), N.Y. . . . .	Add	0	47	4.4
Newark, N.J. . . . .	"	0	46	5.0
Sandy Hook, N.J. . . . .	Sub.	0	36	4.7
Barnegat, N.J. . . . .	Add	1	38	0.9
Cape May Landing, N.J. . . . .	"	0	16	4.8
Delaware Breakwater, Del. . . . .	Sub.	0	3	3.5
Delaware City, Del. . . . .	Add	2	59	6.3
New Castle, Del. . . . .	"	3	52	6.5
Philadelphia, Penn. . . . .	"	5	42	6.0
Annapolis, Md. . . . .	Sub.	3	19	0.9
Baltimore, Md. . . . .	"	1	24	1.3
Havre de Grace, Md. . . . .	Add	1	38	1.5
Point Lookout, Md. . . . .	"	4	58	1.4
Washington (Long Bridge), D.C. . . . .	Sub.	0	20	2.8
Norfolk (navy-yard), Va. . . . .	Add	1	5	2.7
Richmond, Va. . . . .	Sub.	3	25	3.6
Hatteras Inlet, N.C. . . . .	"	0	56	2.0
Beaufort, N.C. . . . .	"	0	35	2.8
Wilmington, N.C. . . . .	Add	1	15	2.7
Smithville, N.C. . . . .	Sub.	0	35	4.4
Charleston (new Custom-House wharf), S.C. . . . .	"	0	19	5.1
Beaufort, S.C. . . . .	"	0	42	7.3
Savannah (dry dock), Ga. . . . .	"	0	25	6.5
Fernandina, Fla. . . . .	"	0	44	6.1
St. John's River (entrance), Fla. . . . .	"	1	1	5.3
St. Augustine, Fla. . . . .	"	0	17	4.1
Cape Florida, Fla. . . . .	"	0	9	1.3
Key West, Fla. . . . .	Add	1	4	1.2
Cedar Keys, Fla. . . . .	"	4	52	1.9